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	Application No.	Applicant(s)
Notice of Allowability	09/690,354	MIIKKULAINEN ET AL.
Notice of Allowability	Examiner	Art Unit
	Joseph P. Hirl	2129
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this applied or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>June 29, 2005</u> .		
2. The allowed claim(s) is/are <u>1-3,5,6,9-15,17,20-26,28-33,35</u>	5-41,43-47 and 49-63.	
3. The drawings filed on 17 October 2000 are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER' as reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	•
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	ffice action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of Informal P	atent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	, , , , ,
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	e
Paper No./Mail Date <u>A1</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	9 M Everniner's Stateme	nt of Bossons for Alleysans
of Biological Material		nt of Reasons for Allowance
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Reasons for Allowance

1. Claims 1-3, 5, 6, 9-15, 17, 20-26, 28-33, 35-41, 43-47 and 49-63 are allowed.

2. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fails to teach the claims invention of learning to predict a medical workflow decision based on a specific user decision wherein the basic system has been trained or is being trained on appropriate data and the decision process flows from a user operating with a graphical medical record interface to a host computer and returns to the a specific user at the user device.

The closest prior art (Bishop et al, U.S. Patent 6,090,044) teaches a system for diagnosing medical conditions using a neural network. While Bishop teaches a two stage cascaded process to diagnose medical conditions (classify), Bishop does not teach a feedback loop from the user wherein such feedback is incorporated into the training process to develop future prediction that patterns the decision making of the specific user. Further, the prior art of Hoffberg (U.S. Patent 6,850,252) teaches an intelligent electronic appliance system and method. Hoffberg teaches a medical device interface that facilitates the integration of data relevant to the patient to be used as medical controller interfacing with many sensors and equipment but does not teach a decision making process initiated by the specific user in a feedback loop wherein such decision is learned and used in future situations. Applicant teaches medical decision making of a user tailored to past performance of such user in an environment of genetic data related to classified medical conditions.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence Information

3. Any inquiry concerning this information or related to the subject disclosure should be directed to the Examiner, Joseph P. Hirl, whose telephone number is (571) 272-3685. The Examiner can be reached on Monday – Thursday from 6:00 a.m. to 4:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Anthony Knight can be reached at (571) 272-3687.

Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks,

Washington, D. C. 20231;

or faxed to:

(571) 273-8300 (for formal communications intended for entry.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Joseph P. Hirl

July 13, 2005

Anthony Knight

Supervisory Patern Examiner

Group 3600